

Please amend the above-captioned patent application, without prejudice, as follows:

IN THE TITLE:

Please amend the Title to read as follows:

Semiconductor Laser-Based Motion Sensing Systems and Methods

IN THE SPECIFICATION:

Please insert the following paragraph on 1 after the Title (as amended) and the paragraph entitled "TECHNICAL FIELD":

RELATED CO-PENDING APPLICATIONS

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The present invention is related to the following co-pending patent applications: Serial No. 09/724,819 entitled "Multiple Laser Optical Sensing Systems and Methods," filed November 28, 2000; Serial No. 09/834,220 entitled "Systems and Methods for Optically Identifying Objects," filed April 12, 2001; Serial No. 09/834,242 entitled "Trainable Laser Optical Sensing Systems and Methods," filed April 12, 2001; and Serial No. 09/834,244 entitled "Laser Optical Area Scanner and Response System," filed April 12, 2001.

Please amend the Specification as follows:

Page 8, lines 8, 14 and 23 of the application should be amended as follows:

FIGs. 2(A-B) illustrate diagrams of a vertical cavity surface emitting laser structure emitting two different patterns of light signals 2(a) and 2(b);

FIG. 3 illustrates a diagram of a target blocking a light signal statically emitted from a vertical cavity surface emitting laser structure before it reaches a detector;

FIGs. 4(A-C) illustrate diagrams of a vertical cavity surface emitting laser structure cycling through different emission patterns of light signals to determine a map of the target. In 4(a) light signals forming a vertical line are blocked by a vertical bar-shaped target and none reach a detector. When a different pattern of signals is emitted as in 4(b), forming a right angle, one signal reaches the detector. In the presence of a right angle-shaped target as in 4(c), however, the same right angle-shaped pattern as emitted in 4(b) would be blocked;

FIGs. 5(A-B) illustrate diagrams of a vertical cavity surface emitting laser structure emitting the same pattern of light signals in 5(a) and 5(b). In 5(a) a target blocks all emitted signals, whereas in 5(b) a different target does not block all signals, allowing recognition of a specified target only;

Page 9, lines 5 and 9 of the application should be amended as follows:

FIGs. 6(a-b) illustrate diagrams of a vertical cavity surface emitting laser structure emitting light signals through a single lens producing a magnified image of the emitted array and 6(b)